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(30) Priority:	(71) Applicant: <b>TORAY IND INC</b>
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**(54) HOLLOW FIBER  
FILTER MEMBRANE  
ELEMENT AND MODULE**

(57) Abstract:

**PURPOSE:** To enhance the recovery of filtering capacity due to air scrubbing to a large extent and to also enhance maintenance properties, in a hollow fiber membrane element wherein an air introducing pipe is formed at the central part of hollow fiber membrane bundles, by forming introduced air jet orifices from the outside of the element to the lower part below the half of the total length of the element of the pipe.

**CONSTITUTION:** In a hollow fiber membrane filter element 2 composed of an external pressure system passing raw water through hollow fiber membrane bundles 21 from the outside of hollow fiber membranes to the inside thereof to filter the same to take out transmitted water from the single ends of the hollow fiber membrane bundles 2 and having an

air introducing pipe formed at the central part of the hollow fiber membrane bundles 21 thereof, introduced air jet orifices 25 from the outside of the element are formed to the lower part below the half of the total length of the element of the pipe. As a result, in the hollow fiber membrane filter element filtering a liquid containing fine particles or a suspended substance and a module, the recovery of filtering capacity due to air scrubbing is enhanced to a large extent. Especially, the effect at a time when air jet orifices are arranged in the hollow fiber membrane bundles by an air dispersing pipe or plate is large. Maintenance properties are also enhanced.

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